

- Find the total perimeter (include straight sides) of a sector of a circle having the following dimensions; round to the nearest tenth.
 - The radius is 8 cm and the sector opens 45° .
 - The radius is 2.5 cm and the sector opens 120° .
 - The radius is 4.1 cm and the sector opens 135° .
 - The radius is 8 cm and the sector opens 12° .
 - The radius is 3 cm and the sector opens 1° .
- The diameter of a circle is 5.21 inches. What is its circumference, to the nearest hundredth?
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- The track used by the race car drivers at Peak Park has two straightaways that are 1.2 miles long each while the semicircular curves on either end have a diameter of 0.2 miles. What is the length of one lap of the track, to the nearest tenth of a mile?
- If the radius of a circle triples, in what way will its circumference change? Be specific about the amount and nature (add, subtract, multiply, etc.) of the change.
 - If the diameter of a circle increase by adding 1, in what way will the circumference change? Again, be specific about the amount and nature of the change.

Answers:

- 22.3 cm*
 - 10.2 cm*
 - 17.9 cm*
 - 17.7 cm*
 - 6.1 cm*
- 16.37 inches*
 - 32.74 inches*
 - 1.66 inches*
 - 0.83 inches*
- 3.0 (yes, you need that tenths' digit to show that you rounded!) miles*
- The circumference also triples (multiplies by 3).*
 - The circumferences increases by adding π .*